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digital
Tools for the imagination.

SUPER CCD

New

DIGITAL CAMERA

FinePix S1 Pro



The One and Only Digital SLR You Will Ever Want



Hi mode (TIFF-RGB) 3,040 × 2,016 pixels, 1/60 sec, f/11.0, ISO 320 equivalent

RESOLUTION AND FLEXIBILITY IN ONE GREAT DIGITAL SLR CAMERA

The Super CCD revolution arrives for professional photographers and digital connoisseurs as an everyday tool. Such a remarkable digital camera could only come from Fujifilm, a company pursuing the true potential of digital photography and possessing new proprietary technologies and endless photography-related resources. By fine-tuning all camera aspects that determine digital image quality and including a next-generation Super CCD that achieves unheard-of image quality, we have created a digital SLR camera with an F-mount that is destined to receive overwhelming acceptance by professional photographers everywhere. FinePix S1 Pro declares the dawning of a new age in digital photography.

- The Super CCD with 3.4 million pixels measures 23.3 × 15.6mm and delivers an ultrahigh resolution image file with up to 6.1 million pixels (3,040 × 2,016 pixels)
- The FinePix S1 Pro features the Nikon F-mount, so you can work with the same high-performance Nikkor lenses you already own (including AF Nikkor and AI-P Nikkor lenses)
- Takes up to five shots at 1.5 frames/sec., delivering the fastest Continuous Shooting Mode in its class
- Selectable shutter speeds can be set anywhere from 30 sec. to 1/2,000 sec.
- Offers four equivalent ISO sensitivity settings up to ISO 1600 maximum for optimum exposure and shutter speed control
- Histogram display shows exposure results immediately after a shot
- Separate controls are available for color temperature, gradation and sharpness settings
- Dual slots are installed for storing images on both SmartMedia™ and CompactFlash™ cards, including the IBM Microdrive™



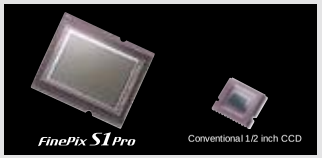
DIGITAL CAMERA

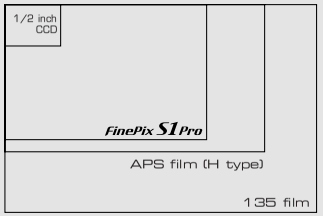
FinePix S1 Pro

Sample images in this brochure were taken with the FinePix S1 Pro. (Excepting product shots)

PROFESSIONAL QUALITY FROM SIMPLER OPERATIONS

Super CCD Delivers Even Higher Image Quality



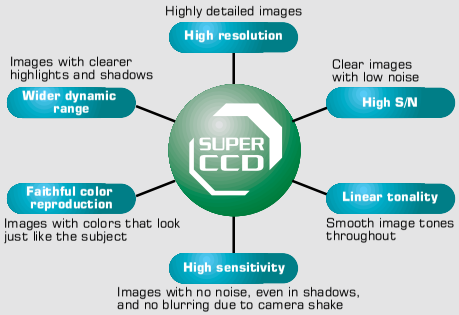


Resolution was once widely held to be directly proportional to the number of photodiodes on a CCD. We now know that the relationship is not so simple. There are many other factors that determine the image quality including a camera's optic system and image processing. Our answer is the Super CCD designed to improve total quality of images.

The octagonal-shaped photodiodes of the Super CCD give a larger pixel size than conventional CCDs, while the interwoven arrangement allows them to be more densely packed. The Super CCD is thus able to increase both horizontal and vertical resolution. By using unique signal processing that performs 12-bit A/D conversion, our Super CCD offers high resolution along with other attributes that are just as crucial to image quality including high sensitivity, high S/N, a wide dynamic range, linear color gradation, accurate color reproduction, and high-speed responsiveness. By balancing all of these factors that have an impact on image quality, we have created a camera that offers super-high resolution far exceeding all that have come before.

The FinePix S1 Pro employs a larger 3.4-megapixel, 23.3 × 15.6 mm sized Super CCD image sensor, newly developed for this camera. The combination of the enlarged pixel size through the use of octagonal-shaped photodiodes and the larger size of the Super CCD captures a great deal of light, resulting in superior image sensing capability and ultrahigh resolution image files with up tp 6.13 million pixels (3,040 × 2,016 pixels).

By taking full advantage of the new Super CCD, the Fine Pix S1 Pro delivers professional image quality with high resolution, linear tonality from highlights to shadows, well-balanced color reproduction, low noise even in shadows, and no blur caused by camera shake.





Hi mode (TIFF-RGB) 3,040 × 2,016 pixels, 1/750 sec, f/11.0, ISO 400 equivalent

High-Speed Response

FinePix S1 Pro includes a special IC chip developed by Fujifilm. This chip, known as an ASIC (Application Specific Integrated Circuit), controls a wide variety of the camera's features including image processing. Thanks to the chip's onboard RISC-CPU, it can rapidly execute all of the features demanded by digital cameras.

This ASIC along with the built-in buffer memory allows FinePix S1 Pro to rapidly shoot images. Unlike other digital SLR cameras, it has a quick shot feature that allows shooting at 0.7 second intervals. It also provides high-speed continuous shooting at 1.5 frames/second (for up to five frames).

Control over Shooting Settings

On the back of FinePix S1 Pro you will find an LCD monitor for checking the images you shot and a backlit LCD display for confirming and changing camera settings.

- ***LCD monitor***

The FinePix S1 Pro sports a 2-inch color LCD monitor that is easy to see even when outdoors. This monitor employs a low-temperature polysilicon TFT that delivers high-resolution images with 200,000 pixels, and it can be used to playback and check images as soon as you shoot them. A Playback zoom function allows enlargement of images for precise checking. The camera also provides a Multi-image Playback (4-frame and 9-frame) function for easily finding the shot you want on the LCD monitor as well as an Automatic Playback function that automatically plays back all the shots you have taken.

- ***Backlit dot matrix LCD***

A backlit dot matrix LCD helps you check and change camera settings quickly. Using the function button, you can set seven modes of white balance and four steps of sensitivity (equivalent to ISO 320/400/800/1600) to fit the lighting conditions, four modes of image qualities, and three modes of pixel resolutions. And by switching the display, you can freely adjust settings to fit the state of your subject, shooting conditions, and the intended outcome. These additional settings include four types of color density, three levels of sharpness, three levels of contrast, and multiple exposure.

In addition to camera settings, the LCD also displays the date, remaining battery power, and the number of shots taken.

- ***Histogram indication***

The LCD monitor can be used to display a



histogram (indicates the image's brightness pattern, red range, blue range and green range) for checking the captured images before you decide to store them on to media. This enables on-the-spot confirmation of exposure, from highlights to shadows, and color range, both of which are hard to evaluate only from the image on the LCD monitor.

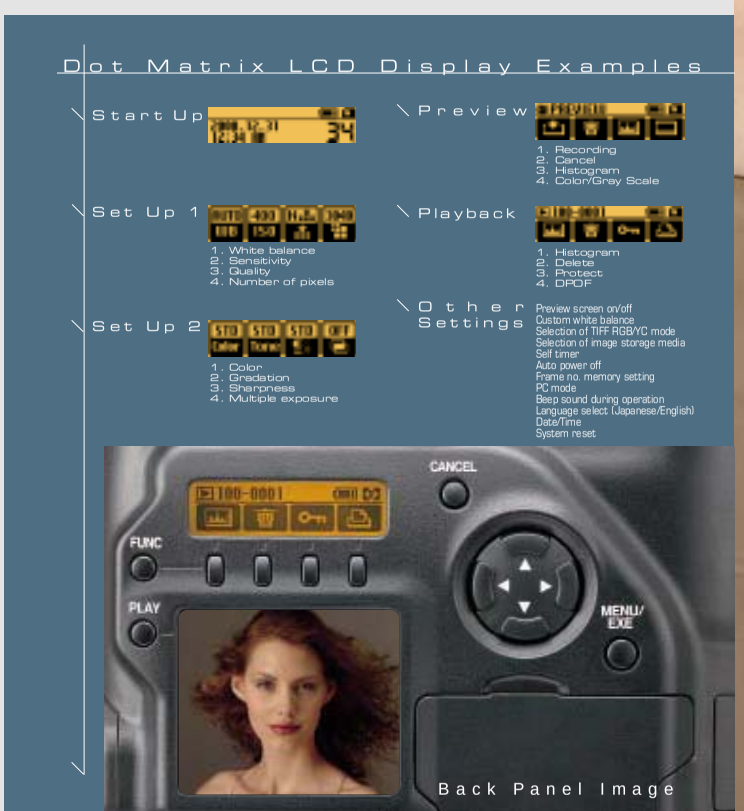
USB Interface

The front of FinePix S1 Pro sports a USB interface. This makes possible the high-speed transfer of large amounts of image data stored on the memory card to a PC. Using the dedicated software, you can even control the camera setting and remote shooting from your PC. In addition to a DC power-input socket, this interface section also includes an Audio/Video port that can be connected with a TV on which you can check your images.

Dual Media Slots

In addition to a slot for the super-thin and compact SmartMedia™ storage cards, FinePix S1 Pro also offers a CompactFlash™ card type I/II (including IBM Microdrive™) slot. You can even have both types of media in their respective slots and select on which one you want to store each image you shoot.







Hi mode (TIFF-RGB) 3,040 × 2,016 pixels, 1/60 sec, f/11.0, ISO 320 equivalent

PERFECT QUALITY CONTROL OVER YOUR IMAGES



Hi mode (TIFF-RGB) 3,040 × 2,016 pixels, 1/60 sec, f/27.0, ISO 320 equivalent

Variety of Shooting modes



Simply turning the exposure mode dial located on top of the camera enables you to easily set ten different exposure modes to fit your subject and intended outcome.

[Auto mode]
AUTO The camera performs all exposure control. This is a convenient setting when you have to be ready to shoot at any time.

[Portrait mode]
Allows for special effects in your shots with your subject sharply focused against a soft background.

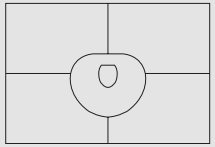
[Landscape mode]
Captures both near and distant portions of the image sharply and clearly.

[Close-up mode]
Focuses on the subject while leaving the background slightly out-of-focus.

[Sport mode]
Captures the motion of action shots by using a fast shutter speed.

[Night Scene mode]
Provides beautiful shots of twilight scenes and city lights by using exposure control optimized for dark subjects.

3D-Matrix Metering



FinePix S1 Pro features 3D-Matrix Metering to achieve superior metering results even in complex lighting by using a 6-segment sensor. 3D 6-Segment Multi-Pattern Metering enables the brightness seen by the naked eye to be faithfully reflected in your shots by separating the image into six segments, measuring the light in each one, and then adding distance information to perform precision exposure control. FinePix S1 Pro also features Center-weighted Metering to obtain correct exposure with excellent overall balance.

* 3D 6-Segment Multi-Pattern Metering is only available when using a D-type AF Nikkor lens. 6-Segment Multi-Pattern Metering is used with other types of lenses.

Flexible exposure modes

[Programmed Auto]
P The camera controls exposure, but you make your own adjustments such as exposure compensation.

[Shutter-Priority Auto]
S The camera controls the aperture as long as a shutter speed has been set. Best used when shooting moving subjects.

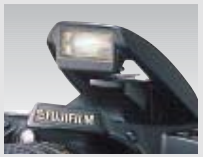
[Aperture-Priority Auto]
A The camera controls shutter speed as long as an aperture value has been set. Best used for shooting that takes into account depth of field.

[Manual]
M Allows you to freely set the shutter speed and aperture value.

Advanced Autofocus System

The FinePix S1 Pro's Auto-Servo AF is so advanced that it can detect whether a subject is stationary or moving, and also detects direction. According to the detected information, it automatically chooses to lock focus or activate focus tracking. Either way, you're assured autofocusing that works fast, accurately, and easily.

TTL Flash Control



FinePix S1 Pro provides a manually operated built-in pop-up flash (Guide No. 15). The camera also includes an accessory shoe for when additional lighting is required. A TTL external flash can also be used.

Multiple and Long Exposure

A simple press of the function button allows you to experiment with multiple exposure shots. And with its slowest shutter speed of 30 seconds, you can take long exposures of celestial objects and other such subjects.

Batteries



FinePix S1 Pro can take approximately 650 shots when powered by AA alkaline batteries or the more economical AA rechargeable Ni-MH/NiCd batteries.

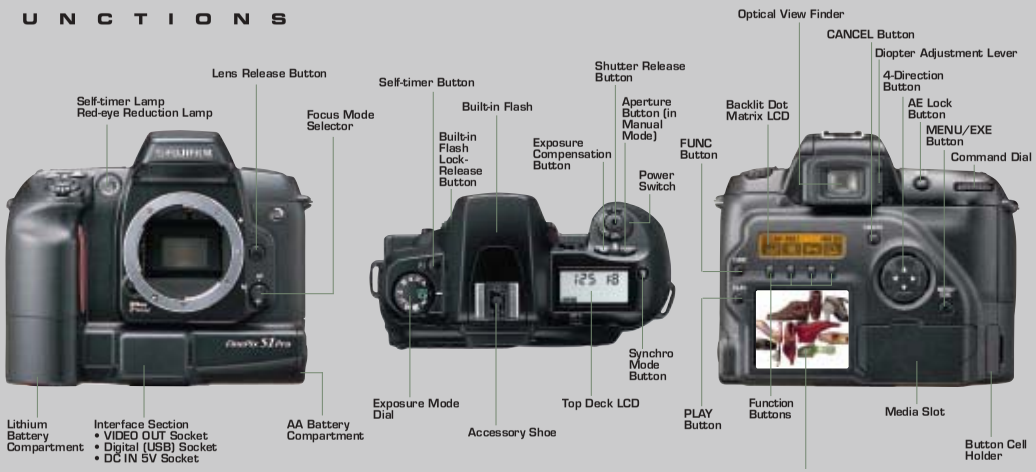
F-Mount Enables Use of a Wide Range of Nikkor Lenses



Nikkor lenses have been continually evolving and receiving overwhelming support from professional photographers. FinePix S1 Pro lets you use almost any lens* from the extensive Nikkor lineup so that your images will come out exactly how you intended.

* Please note that there are some incompatible lenses. See table at right.

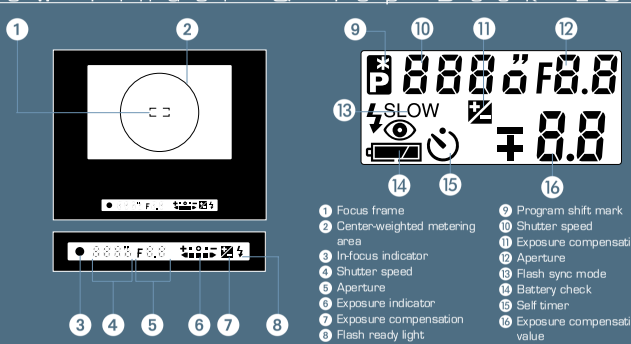
FUNCTIONS





Hi mode (TIFF-RGB) 3,040 × 2,016 pixels, 1/60 sec, f/16.0, ISO 320 equivalent

View Finder & Top Deck LCD



1 Focus frame
2 Center-weighted metering area
3 In-focus indicator
4 Shutter speed
5 Aperture
6 Exposure indicator
7 Exposure compensation
8 Flash ready light
9 Program shift mark
10 Shutter speed
11 Exposure compensation
12 Aperture
13 Flash sync mode
14 Battery check
15 Self timer
16 Exposure compensation value

Lens Compatibility

Lens \ Mode	Focusing			Exposure modes			
	Auto Focus	Focus-Aid	Manual	Programmed Auto	Shutter-Priority Auto	Aperture-Priority Auto	Manual
D-type AF Nikkor lenses (Excluding AF-S, AF-I and lenses for F3 AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AF-S, AF-I, Ai-P Nikkor lenses, AF-I Teleconverter*1	No	Yes*2	Yes	Yes	Yes	Yes	Yes
PC Micro 85mm F2.8D	No	Yes*6	Yes	No	No	No	Yes*7
Ai-S, Ai series E lenses, modified Ai Nikkor lenses	No	Yes*2	Yes	The exposure metering value set by the camera will be canceled. These lenses can only be used after setting the exposure value by the exposure ring value, setting the exposure mode to M (Manual mode), and setting the shutter speed and aperture.			
Medical 120mm f/4	No	Yes	Yes				
Reflex lenses*3	No	No	Yes				
PC Nikkor lenses	No	Yes*6	Yes				
Teleconverter*5 (Excluding AF Teleconverter)	No	Yes*4	Yes				

*1 Restricted for AF-S and AF-I lenses.
*2 These lenses can only be used when full aperture value is f/5.6 or brighter.
*3 Some lenses may not be mounted on this camera.
*4 These teleconverters can only be used when combined aperture value is f/5.6 or brighter.
*5 TC-16S/16AS may not be used.
*6 This lens can only be used when tilt and shift movements are not operated.
*7 Exposure value is set under full aperture and without tilt and shift movements.

Nikon Flash Units Compatibility

Speedlight \ Flash Modes	Matrix Balanced Fill-Flash*1	Non-TTL Auto Flash	Manual	Repeating Flash	Wireless Slave Flash
SB-28	Yes	Yes	Yes	Yes	No
SB-27	Yes	Yes	Yes	No	No
SB-26	Yes	Yes	Yes	Yes	Yes
SB-25, SB-24	Yes	Yes	Yes	Yes	No
SB-23, SB-21B*2	Yes	No	Yes	No	No
SB-22, SB-22s, SB-20, SB-16B, SB-15	Yes	Yes	Yes	No	No
SB-11*3, SB-14*4, SB-140 (visible light)*3	Yes	Yes	Yes	No	No

*1 When the exposure mode is set to Manual, the flash mode switches to Center-Weighted Fill-Flash.
*2 With SB-21B, autofocus can only be used when the AF Micro-Nikkor (60 mm, 105 mm, 200 mm and 70-180 mm) is attached.
*3 TTL Auto Flash is possible with the TTL Remote Cord SC-23.
In A or M exposure mode, attach SU-2 to SC-13 with SB-11 and SB-14 or attach SU-3 to SC-13, SC-11 or SC-15 to AS-15 with SB-140 in conjunction with SC-23.

• See your Speedlight manual for details. If the camera groups are defined in the manual of the Speedlight with TTL auto flash, see the section for camera group "iV" or "F50-series/N50".

SPECIFICATIONS

DIGITAL CAMERA FinePix S1 PRO

Type of Camera	Interchangeable-lens SLR-type digital camera
Lens mount	Nikon F mount
CCD	23.3 × 15.6 mm Super CCD, 3.4 million pixels in an interwoven pattern
Image file size	6.1 million pixels (3,040 × 2,016) / 2,304 × 1,536 / 1,440 × 960 pixels, 24-bit color
Sensitivity	Equivalent to ISO 320 / 400 / 800 / 1600
Storage Media	Slot No.1: SmartMedia (2MB to 64MB/3.3V) Slot No.2: Compact Flash Card type I/II * Compatible Media IBM MicroDrive™ (340MB) Sandisk SDCFB 16/32/44/48/64/98/128 LexarMedia 4× types (8MB to 80MB) 8× types (8MB to 160MB)
File format	TIFF-RGB,TIFF-YC, JPEG (supports Exif ver. 2.1) * Design rule for Camera File system-compliant/ DPOF-compatible

Number of images

Image file size (pixels)	3,040 × 2,016				
Image quality modes	Hi (RGB)	Hi (YC)	Fine	Normal	Basic
File sizes (Approx.)	18MB	12MB	2.4MB	1.2MB	0.7MB
16MB SmartMedia™	0	1	6	13	32
32MB SmartMedia™	1	2	12	27	66
64MB SmartMedia™	3	5	26	55	132
340MB MicroDrive™	19	29	144	305	741

The data sizes and numbers of available shots will vary slightly depending on the type of subject.

Shooting modes	Single frame shooting Continuous shooting: approx. 1.5 frames/sec up to 5 frames Preview mode Multiple exposure
Exposure Modes	Auto mode Programmed Auto mode Shutter-priority Auto mode Aperture-priority Auto mode Manual Exposure Control mode
5 Vari-Program mode	Portrait mode (suitable for telephoto lenses) Landscape mode (suitable for wide-angle lenses) Close-up mode (suitable for macro lenses) Sport mode (High speed shutter, continuous shooting) Night Scene mode (Low speed shutter)
White Balance	Auto / Fine / Shade (fine weather) / Incandescent light / 3 modes for fluorescent light / Custom setting
LCD monitor	2-inch, low-temperature polysilicon TFT (approx. 200,000 pixels)
Playback Function	1) 1 frame 2) Thumbnails in 4 segments 3) Thumbnails in 9 segments 4) Playback zoom 5) Histogram indication 6) Standard chart
Usable Lenses	AF Nikkor lenses, AI-P-type Nikkor lens, (IX-Nikkors can not be used)
Picture angle	Approx. 1.5✕ focal length in 35mm[135] format equivalent
View finder	Fixed eye level penta-prism high-eye-point type
Frame coverage	Approx. 90%
Eye point	Approx. 17mm
Focusing screen	Fixed Clear Matte screen II with central focus brackets for autofocus operation
Magnification	Approx. 0.69✕ to 0.74✕ magnification with 50mm lens set at infinity
Viewfinder information	Focus indication (in-focus indication and AF not possible warning), warning indications, exposure value (shutter speed, aperture), exposure warning, electronic analogue display, exposure compensation, focus brackets, Center-Weighted Metering area, flash ready light (charged indication, full output warning and flash recommended)
Autofocus	Auto-Servo AF: chooses Single-Servo AF or Continuous-Servo AF operation according to the subject status (i.e. moving or stationary) Note: Continuous-Servo AF is automatically selected when exposure mode is set to the Sport mode.
Autofocus detection system	TTL phase detection Detection range: EV -1 to EV 19 (ISO 100 equivalent, at normal temperature)
Autofocus lock	Focus is locked when the shutter release button is lightly pressed and a stationary subject is in focus in Auto-Servo AF
Exposure metering	1. 3D Matrix: with D-type AF Nikkor 2. 6 segment Matrix: with non-D-type AF Nikkor, AI-P-Nikkor 3. Center-weighed: In Manual exposure mode or with Auto Exposure Lock
Metering range	EV 1 to 20 at ISO 100, 50mm f/1.4 lens
Exposure compensation	3 EV range, in 1/3 EV increments Auto Exposure Lock available by pressing the AE-L button while the exposure meter is on
Shutter	Electronically controlled vertical-travel focal-plane shutter
Shutter speed	30 to 1/2,000 sec
Remote release	Mechanical remote terminal
Internal flash	Guide No.15 (ISO 100•m), effective for 28mm lens frame coverage (Activated by pressing built-in flash lock-release button.)

	F2.8	F4.0	F5.6	F8	F11
ISO 320	2.2~10.3 m	1.8~8.7 m	1.3~6.3 m	0.8~4.3 m	0.8~3.2 m
ISO 400	2.5~11.5 m	2.0~9.7 m	1.5~6.8 m	1.0~4.8 m	1.0~3.6 m

* When the sensitivity is set to ISO 800 or ISO 1600, the built-in flash will fire but flash control may not be performed correctly. Shoot in preview mode, so that you can check the exposure.

TTL-BL flash operations: Normal / slow-synchro / red-eye reduction / red-eye reduction with slow-synchro

Ready light	Lights up when flash fully charged Blinks in dark conditions. Blinks for 3 sec for full output warning.
Accessory shoe	Standard ISO type with hot-shoe contact, ready-light contact, TTL flash contact, monitor contact; mount receptacle for Posi-Mount system provided
Self timer	2 sec (quick mode) and 10 sec.
LCD panel (top panel) display	Exposure value / display of synchro mode / battery charge indicator / self timer /value of exposure compensation
Video Output	NTSC (USA/Canada model) or PAL (European model)
Interface	USB
Power source	1. 4 × AA type batteries: Alkaline, Ni-MH or Ni-Cd batteries can be used. (Manganese batteries cannot be used.) or AC power adapter for image-handling system 2. 2 × Lithium batteries type CR123A for controlling camera system 3. 1 × Lithium battery type CR2025 for internal clock

Battery life (4 × AA type batteries)

Batteries	SmartMedia™	MicroDrive™
Alkaline	600	420
Ni-MH	650	450
Ni-Cd	400	250

Shot every 30 sec. After lightly pressing the shutter release button for 5 sec, the auto focus operation covers the full range from infinity to the close distance and back to infinity before each shot.
Resolution: 3,040 × 2,016 pixels / File format: JPEG (Normal) / Preview: OFF / Beep sound: OFF / CR-123A battery: Used

Battery life (Lithium battery)

Battery	With flash for half of all exposures	Without flash
CR123A	1,000	1,500

Shot every 30 sec. After lightly pressing the shutter release button for 5 sec, the auto focus operation covers the full range from infinity to the close distance and back to infinity before each shot. You may shoot not only with CR-123A but with 4 × AA type batteries.

Dimension	148.5 (W) × 125 (H) × 79.5 (D) mm
Weight	Approx. 800g (without batteries and lens)
Included accessories	SmartMedia 16MB/3.3V USB cable Video cable Shoulder strap Battery adapter 4 × AA alkaline batteries, 2 × CR123A lithium batteries and 1 × CR2025 lithium battery CD-ROM (camera shooting software, Exif Viewer, DP Editor, USB Mass storage driver, Adobe® Photoshop 5.0LE (European model only))
Optional accessories	SmartMedia™ Cards (MG-4S, MG-8S, MG-16S, MG-32S, MG-64S) Floppy Disk Adapter FD-A2 PC Card Adapter PC-AD3 Image Memory Card Reader SM-R1/R2 (with USB interface) Image Memory Card Reader DM-R1 (with IEEE 1394 interface) AC power adapter AC-5VH Battery charger with Ni-MH batteries BK-NH (for 220V only) Ni-MH rechargeable batteries 2HR-3UF Carrying Case LC-S1

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